

10-005-00004



STATE OF DELAWARE  
DEPARTMENT OF NATURAL RESOURCES  
& ENVIRONMENTAL CONTROL  
DIVISION OF AIR QUALITY  
655 S. Bay Road, Suite 5N  
DOVER, DELAWARE 19901

Telephone: (302) 739 - 9402  
Fax No.: (302) 739 - 3106

April 5, 2012

Section Chief  
Permit Program Section (**3AP10**)  
United States Environmental Protection Agency  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

RECEIVED  
APR 10 2012  
3AP30

ATTENTION: Kathleen Cox  
Section Chief, Permit Review Section

Dear Ms. Cox:

Enclosed are "Final" federally enforceable operating permits for Mountaire Farms of Delaware, Inc. having a facility at 29106 John J. Williams Highway, in Millsboro, Delaware. The Company is planning to test its Resource Recovery Plant for PM10 to substantiate a natural minor designation for the facility. Should the facility retain the Title V permit (**AQM-005/00004 (Renewal 2)**), the enclosed permits will be administratively amended to the Title V permit in accordance with the requirements of 7 DE Admin. Code 1130.

Sincerely,

A handwritten signature in cursive script that reads "Joanna L. French".

Joanna L. French, P.E.  
Managing Engineer  
Engineering & Compliance Branch

PEF:JLF:MAS  
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pc: Dover Title V File  
Paul Foster  
Melanie Smith  
Cathleen Kennedy – EPA Region III

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April 5, 2012

Mountaire Farms of Delaware, Inc.  
P.O. Box 1320  
Millsboro, DE 19966

**Certified Mail # 7006 0810 0001 0056 9102**  
**Return Receipt Requested**

ATTENTION: Mr. Paul Downes  
President

SUBJECT: Permit: APC-2011/0080-OPERATION (Amendment 2)(FE)  
Permit: APC-2011/0081-OPERATION (Amendment 2)(FE)  
Permit: APC-2011/0082-OPERATION (Amendment 3)(FE)  
Permit: APC-2011/0083-OPERATION (Amendment 3)(FE)  
Permit: APC-2011/0084-OPERATION (Amendment 3)(FE)  
Permit: APC-2011/0085-OPERATION (Amendment 3)(FE)  
Permit: APC-2011/0103-OPERATION (NOx RACT)(NSPS)(FE)  
Permit: APC-2011/0104-OPERATION (NOx RACT)(NSPS)(FE)  
Permit: APC-2011/0105-OPERATION (NOx RACT)(NSPS)(FE)  
Permit: APC-2011/0158-OPERATION (NOx RACT)(NSPS)(FE)  
"Final" Federally Enforceable Operating Permits

Dear Mr. Downes:

Enclosed please find federally enforceable operating permits for scrubbers Emission Units (EU) 80, 81, 82, and 83, thermal oxidizers EU 84 and EU 85, and boilers EU 3, EU 4, EU 5, and EU 8. The Department understands that the Company is planning to test for PM10 at the inlet to the Resource Recovery Plant in hopes that the facility may be designated a natural minor. Should the Company retain its Title V permit (AQM-005/00004 (Renewal 2)), the Company shall request that these federally enforceable operating permits be administratively amended to the Title V permit pursuant to 7 DE Admin. Code 1130.

Prepared Feeds NESHAP 40 CFR 63 Subpart DDDDDDD (MACT) was erroneously added to Amendment 1 of the Resource Recovery permit dated November 1, 2011 and was carried through successive amendments. EPA has not delegated implementation and enforcement (63.11626) of this subpart to Delaware. The MACT conditions have been removed from the Resource Recovery permit and will be added to the pellet cooler permit for the feedmill when Delaware has adopted the subpart.

As the designated responsible official for Mountaire Farms of Delaware, Inc., it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permits. It is also your responsibility to ensure that any person who operates any emission unit subject to any term or condition of the attached permits reviews, understands, and abides by the condition(s) of the attached permits that are applicable to that particular unit.

The attached permits cover only the operating permit requirements of 7 DE Admin. Code 1102 and 1130.

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Permit: APC-2011/0080-OPERATION (Amendment 2)(FE)  
Permit: APC-2011/0081-OPERATION (Amendment 2)(FE)  
Permit: APC-2011/0082-OPERATION (Amendment 3)(FE)  
Permit: APC-2011/0083-OPERATION (Amendment 3)(FE)  
Permit: APC-2011/0084-OPERATION (Amendment 3)(FE)  
Permit: APC-2011/0085-OPERATION (Amendment 3)(FE)  
Permit: APC-2011/0103-OPERATION (NOx RACT)(NSPS)(FE)  
Permit: APC-2011/0104-OPERATION (NOx RACT)(NSPS)(FE)  
Permit: APC-2011/0105-OPERATION (NOx RACT)(NSPS)(FE)  
Permit: APC-2011/0158-OPERATION (NOx RACT)(NSPS)(FE)

Mountaire Farms of Delaware, Inc.

April 5, 2012

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The attached permit does not satisfy future construction permit obligations. Prior to initiating any construction or modification activity, Mountaire Farms of Delaware, Inc. must evaluate the applicability of, and, if required, secure necessary construction permit(s) pursuant to 7 DE Admin. Code 1102 or 1125, and/or initiate necessary permit revision procedures pursuant to 7 DE Admin. Code 1102 and 7 DE Admin. Code 1130.

Please contact Melanie Smith at (302) 739-9402 if you have any questions or comments regarding the attached permits.

Sincerely,



Paul E. Foster, P.E.  
Program Manager  
Engineering & Compliance Branch

PEF:JLF:MAS

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pc: Dover File  
Melanie Smith  
Beth Sise, Environmental Manager, Mountaire Farms of Delaware, Inc., P.O. Box 1320, Millsboro, DE 19966





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**Permit: APC-2011/0080-OPERATION (Amendment 2)(FE)**  
**Permit: APC-2011/0081-OPERATION (Amendment 2)(FE)**  
**Permit: APC-2011/0082-OPERATION (Amendment 3)(FE)**  
**Permit: APC-2011/0083-OPERATION (Amendment 3)(FE)**  
**Permit: APC-2011/0084-OPERATION (Amendment 3)(FE)**  
**Permit: APC-2011/0085-OPERATION (Amendment 3)(FE)**

Mountaire Farms of Delaware, Inc.  
Resource Recovery Plant  
Millsboro Complex  
P.O. Box 1320  
Millsboro, DE 19966

ATTENTION: Ms. Beth Sise  
Environmental Manager

Dear Ms. Sise:

Pursuant to the 7 **DE Admin. Code** 1102 Section 2 and Section 11, approval by the Department of Natural Resources and Environmental Control is hereby granted for the operation of Emission Unit (EU) 80, EU 81, and EU 82, all Haarslev, Inc. Model AS-100 scrubbers, EU 83, Haarslev, Inc. Model AS-40 scrubber, and EU 84 and EU 85, Haarslev, Inc. Model TRO-25 thermal oxidizers, each rated 1.7 MMBTU/hr and fired on natural gas, located at the Millsboro Complex facility in Millsboro, Delaware, in accordance with the application submitted on Form Nos. AQM-1, AQM-2, AQM-3.1, AQM-4.1, AQM-4.4, AQM-5, AQM-1001, AQM-1001B, AQM-1001K, AQM-1001N, AQM-1001V, AQM-1001W, AQM-1001X, AQM-1001Y, AQM-1001BB, process flow diagram, and emission calculation sheets dated February 18, 2011 signed by Paul Downes, President, and email dated February 25, 2011 signed by Brian Lyncha, P.E., BCEE, CABE Associates, Inc., and February 28, 2011 signed by Ed Robles, CABE Associates, Inc., emails dated May 9, 2011, June 6, 2011, June 20, 2011, and June 22, 2011 signed by Brian Lyncha, CABE Associates, Inc., letter dated July 19, 2011 signed by John Wren, Director of Engineering & Environmental Services, letter dated December 2, 2011 and email dated December 23, 2011 both signed by Beth Sise, Environmental Manager, emails dated December 28, 2011 and February 3, 2012 both signed by Joanna French, Engineering Manager, email dated March 16, 2012 signed by Beth Sise, and email dated March 22, 2012 signed by John Wren, Director of Engineering & Environmental Services.

This permit is issued subject to the following conditions all of which are federally enforceable except Condition 6.1.2 and 2.3:

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**1. General Provisions**

- 1.1 Upon presentation of identification, the Company shall authorize officials of the Department to:
  - 1.1.1 Enter upon the Company's premises where a source is located or an emissions-related activity is conducted, or where records that must be kept under the terms and conditions of this permit are located. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.2.1 dated 12/11/00]**
  - 1.1.2 Have access to and copy, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.2.2 dated 12/11/00]**
  - 1.1.3 Inspect, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.2.3 dated 12/11/00]**
  - 1.1.4 Sample or monitor, at reasonable times, any substance or parameter for the purposes of assuring compliance with this permit or any applicable requirement. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.2.4 dated 12/11/00]**
- 1.2 This permit may not be transferred to another location or to another piece of equipment or process. *[Reference 7 DE Admin. Code 1102 Section 7.1 dated 6/1/97]*
- 1.3 This permit may not be transferred to another person, owner, or operator unless the transfer has been approved in advance by the Department. Approval (or disapproval) of the permit transfer will be provided by the Department in writing. A request for a permit transfer shall be received by the Department at least thirty (30) days before the date of the requested permit transfer. This request shall include: *[Reference 7 DE Admin. Code 1102 Section 7.1 dated 6/1/97 and 7 Del. C., Chapter 79]*
  - 1.3.1 Signed letters from each person stating the permit transfer is agreeable to each person; and
  - 1.3.2 An Applicant Background Information Questionnaire pursuant to 7 Del. C., Chapter 79 if the person receiving the permit has not been issued any permits by the Department in the previous five (5) years.
- 1.4 The owner or operator shall not initiate construction, install, or alter any equipment or facility or air contaminant control device which will emit or prevent the emission of an air contaminant prior to submitting an application to the Department pursuant to 7 DE Admin. Code 1102, and, when applicable, 7 DE Admin. Code 1125, and receiving approval of such application from the Department; except as exempted in 7 DE Admin. Code 1102 Section 2.2. *[Reference 7 DE Admin. Code 1102 Section 2.1 dated 6/1/97]*



Permits: APC-2011/0080-0081-OPERATION (Amendment 2)(FE)

Permits: APC-2011/0082-0085-OPERATION (Amendment 3)(FE)

Mountaire Farms of Delaware, Inc.

Millsboro Complex

Resource Recovery Plant

April 5, 2012

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## 2. Emission Limitations

- 2.1 The Resource Recovery Plant, including thermal oxidizers EU 84 and 85 and scrubbers EU 80, 81, 82, and 83, shall not exceed the following: **(These conditions will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]
- 2.1.1 Hydrogen Sulfide (H<sub>2</sub>S) Emissions  
H<sub>2</sub>S emissions shall not exceed 0.011 tons in any rolling twelve (12) month period.
- 2.1.2 Ammonia (NH<sub>3</sub>) Emissions  
NH<sub>3</sub> emissions shall not exceed 0.08 tons in any rolling twelve (12) month period.
- 2.1.3 Sulfur Oxide (SO<sub>x</sub>) Emissions  
SO<sub>x</sub> emissions shall not exceed 0.003 tons in any rolling twelve (12) month period.
- 2.1.4 Nitrogen Oxide (NO<sub>x</sub>) Emissions
- 2.1.4.1 NO<sub>x</sub> emissions shall not exceed 9.98 tons in any rolling twelve (12) month period.
- 2.1.4.2 NO<sub>x</sub> emissions shall not exceed 0.103 pound per ton of raw materials.
- 2.1.5 Carbon Monoxide (CO) Emissions  
CO emissions shall not exceed 0.033 tons in any rolling twelve (12) month period.
- 2.1.6 Volatile Organic Compound (VOC) Emissions  
VOC emissions shall not exceed 0.121 tons in any rolling twelve (12) month period.
- 2.1.7 Particulate Matter (PM<sub>10</sub>) Emissions  
PM<sub>10</sub> emissions shall not exceed 5.97 tons in any rolling twelve (12) month period.
- 2.1.8 Particulate Matter (PM) Emissions
- 2.1.8.1 PM emissions shall not exceed 5.99 tons in any rolling twelve (12) month period.
- 2.1.8.2 For EU 84 and 85 (thermal oxidizers), the Company shall not cause or allow the emission of particulate matter in excess of 0.3 lb/MMBTU heat input, maximum two (2) hour average. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1104, Section 2.0 dated 2/1/81]
- 2.1.8.3 Particulate emissions shall not exceed 0.2 grains of particulate matter per standard cubic foot of exhaust air from thermal oxidizers EU 84 and 85 and scrubbers EU 80, 81, 82, and 83. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1105 Section 2.0 dated 2/1/81]

- 2.2 No person shall cause or allow the emission of visible air contaminants and/or smoke from a stationary or mobile source, the shade or appearance of which is greater than twenty percent (20%) opacity for an aggregate of more than three (3) minutes in any one (1) hour or more than fifteen (15) minutes in any twenty-four (24) hour period. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1114 Section 2.1 dated 7/17/84]**
- 2.3 Odors from this source shall not be detectable beyond the plant property line in sufficient quantities such as to cause a condition of air pollution. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1119 Section 2.0 dated 2/1/81]**

### **3. Operational Limitations**

- 3.1 Natural gas consumption shall not exceed 9.2 MMSCF in any rolling twelve month period for each thermal oxidizer. **(This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]**
- 3.2 Natural gas consumption shall not exceed 18.4 MMSCF in any rolling twelve month period for both thermal oxidizers. **(This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]**
- 3.3 Fan amperage for each of the scrubbers EU 80 (Scrubber 610), EU 81 (Scrubber 620), and EU 82 (Scrubber 630) shall not fall below 165 amps. **(This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]**
- 3.4 Fan amperage for scrubber EU 83 (Scrubber 640) shall not fall below 70 amps. **(This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]**
- 3.5 The ORP for the scrubbing solution for scrubbers EU 80, EU 81, EU 82, and EU 83 shall not exceed 705 nor fall below 475. **(This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]**
- 3.6 The temperature in the combustion chamber of thermal oxidizers EU 84 and EU 85 shall be at least 1202°F. **(This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]**
- 3.7 The thermal oxidizers EU 84 and EU 85 shall be fired by natural gas only. **(This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]**
- 3.8 Raw material usage shall not exceed 3.5 tons per hour blood, 7 tons per hour feathers, and 25 tons per hour offal and carcasses. **(This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]**
- 3.9 Production for each thermal oxidizer EU 84 and EU 85 shall be limited to 88,520 tons in any rolling twelve month period. **(This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]**
- 3.10 Production for both thermal oxidizers EU 84 and EU 85 shall be limited to 177,041 tons in any rolling twelve month period. **(This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130, Section 6.1.1 dated 12/11/00]**



- 3.11 No person shall cause or allow visible particulate emissions of any material being transported by a motor vehicle. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1106, Section 4.0 dated 2/1/81]
- 3.12 No person shall cause or allow stockpiling or other storage of material or transport to or from a storage facility in such a manner as may cause a condition of air pollution. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1106, Section 6.0 dated 2/1/81]
- 3.13 At all times, including periods of startup, shutdown, and malfunction, the owner or operator shall, to the extent practicable, maintain and operate the facility, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determinations of whether acceptable operating procedures are being used will be based on information available to the Department, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1101 Section 3 dated 2/1/81 and 7 DE Admin. Code 1102 Section 11.6 dated 6/1/97]
- 3.14 All structural and mechanical components of the equipment covered by this permit and in use shall be maintained in proper operating condition. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1101 Section 3 dated 2/1/81 and 7 DE Admin. Code 1102 Section 11.6 dated 6/1/97]
- 3.15 The operational limitations of Conditions 3.1, 3.2, 3.9 and 3.10 are voluntary restrictions taken by the Company to limit emissions of NOx to below the five (5) ton per year applicability threshold of 7 DE Admin. Code 1125, Section 4.0, *Minor New Source Review*. The Company shall meet the control technology requirements of *Minor New Source Review*, 7 DE Admin. Code 1125, Section 4.0, if the Company requests an increase in fuel consumption or production that results in a NOx Potential to Emit above five tons per year. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1125 Section 4.0 dated 8/11/05]

#### **4. Testing and Monitoring Requirements**

- 4.1 Within ninety (90) days after achieving the maximum production rate at which the facility will be operated, but not later than 180 days after initial startup of such facility, the owner or operator shall conduct performance test(s) and furnish the Department with a written report of the results of such performance test(s) in accordance with the following general provisions:
  - 4.1.1 One (1) original and two (2) copies of the test protocol shall be submitted a minimum of forty-five (45) days in advance of the tentative test date to the address in Condition 6.3. The tests shall be conducted in accordance with the State of Delaware and Federal Requirements. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1117 Section 2.2 dated 7/17/84]
  - 4.1.2 The test protocol shall be approved by the Department prior to initiating any testing. Upon approval of the test protocol, the Department will notify the owner or operator and the Company shall schedule a test date with the Air Surveillance and Engineering & Compliance Branches. The Department must observe the test

for the results to be considered for acceptance. *[Reference 7 DE Admin. Code 1102 Section 11.7 dated 6/1/97]*

- 4.1.3 The final results of the testing shall be submitted to the Department within sixty (60) days of the test completion. One (1) original and two (2) copies of the test report shall be submitted to the addresses below: *[Reference 7 DE Admin. Code 1112 dated 11/24/93]*

Original and One (1) Copy to:  
Engineering & Compliance Branch  
Attn: Assigned Engineer/Scientist  
Blue Hen Corporate Center  
655 S. Bay Road, Suite 5 N  
Dover, DE 19901

One (1) Copy to:  
Air Surveillance Branch  
Attn: Eng./Observer  
715 Grantham Lane  
New Castle, DE 19720

- 4.1.4 The final report of the results must meet the following requirements to be considered valid:

- 4.1.4.1 The full report shall include the emissions test report (including raw data from the test) as well as a summary of the results and statement of compliance or non-compliance with permit conditions; *[Reference 7 DE Admin. Code 1117 Section 2.6 dated 7/17/84]*

- 4.1.4.2 Summary of Results and Statement of Compliance or Non-Compliance  
The owner or operator shall supplement the report from the emissions testing firm with a summary of results that includes the following information:

- 4.1.4.2.1 A statement that the owner or operator has reviewed the report from the emissions testing firm and agrees with the findings.  
*[Reference 7 DE Admin. Code 1117 Section 2.6 dated 7/17/84]*

- 4.1.4.2.2 Permit number(s) and condition(s) which are the basis for the compliance evaluation. *[Reference 7 DE Admin. Code 1117 Section 2.6 dated 7/17/84]*

- 4.1.4.2.3 Summary of results with respect to each permit condition.  
*[Reference 7 DE Admin. Code 1117 Section 2.6 dated 7/17/84]*

- 4.1.4.2.4 Statement of compliance or non-compliance with each permit condition. *[Reference 7 DE Admin. Code 1117 Section 2.6 dated 7/17/84]*

- 4.1.4.3 The Test Report shall be certified by a Responsible Official as to truth, accuracy, and completeness as required by Condition 6.4 of this permit.  
*[Reference 7 DE Admin. Code 1130 Section 5.6 dated 11/15/93 and 6.3.1 dated 12/11/00]*

- 4.1.5 The results must demonstrate to the Department's satisfaction that the emission unit is operating in compliance with the applicable regulations and conditions of this permit; if the final report of the test results shows non-compliance the owner or operator shall propose corrective action(s). Failure to demonstrate compliance



through the test may result in enforcement action. [Reference 7 DE Admin. Code 1102 Section 11.3 dated 6/11/06]

- 4.2 In accordance with Condition 4.1, the owner or operator shall, at the Company's expense, sample the emissions of the two regenerative thermal oxidizers and scrubber EU 83, maintain records, and submit reports to the Department on the result of such sampling. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1117 Section 2.2 dated 7/17/84]
- 4.2.1 The Company shall test for NO<sub>x</sub>, SO<sub>2</sub>, THC, NH<sub>3</sub>, and CO emissions after each of the two thermal oxidizers.
- 4.2.2 The Company shall test for THC, NH<sub>3</sub>, and PM emissions after scrubber EU 83.
- 4.2.3 An RTO combustion chamber operating temperature will be established at the performance test.
- 4.3 For thermal oxidizers EU 84 and EU 85 and scrubbers EU 80, EU 81, EU 82, and EU 83: The Company shall monitor the presence or absence of visible emissions during thermal oxidizer/scrubber start-up and operation, when the facility is operating during daylight hours and record observations in a log using the following procedure: **(These conditions will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]
- 4.3.1 "Survey of emission point for the presence or absence of visible emissions" shall be defined as a minimum period of five (5) consecutive minutes.
- 4.3.2 The detection of the presence or absence of visible emissions shall be in accordance with the procedures of EPA Reference Method 22 (40 CFR 60, Appendix A) paragraphs 4 and 5 which follow.
- 4.3.3 This procedure does not require that the opacity of the emissions be determined. Since this procedure requires only the determination of whether visible emissions occur and does not require the determination of opacity levels, observer certification according to the procedures of EPA Reference Method 9 (40 CFR 60, Appendix A) is not required. However, it is necessary that the observer is educated on the general procedures for determining the presence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor).
- 4.3.4 If visible emissions are observed for three (3) consecutive minutes, the visible emission survey shall be stopped and corrective action shall be taken. After the corrective action has been completed, the visible emissions survey shall be resumed.
- 4.3.5 If visible emissions are observed again, an EPA Reference Method 9 visible emissions observation shall be conducted. If visible emissions exceed those limits identified in 7 DE Admin. Code 1114, the thermal oxidizer/scrubber shall be taken

off-line and corrective action shall be taken. If visible emissions do not exceed those limits identified in 7 **DE Admin. Code** 1114, but are still present and not part of normal operations, the survey for the presence or absence of visible emissions and further corrective action shall continue until the problem is corrected or the emission unit is taken off-line.

- 4.4 The fan amperage for scrubbers EU 80, EU 81, EU 82, and EU 83 shall be monitored twice each day. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 **DE Admin. Code** 1130 Section 6.1.3.1 dated 12/11/00]
- 4.5 The ORP of the scrubbing solution for EU 80, EU 81, EU 82, and EU 83 shall be monitored continuously. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 **DE Admin. Code** 1130 Section 6.1.3.1 dated 12/11/00]
- 4.6 The temperature in the combustion chamber of thermal oxidizers EU 84 and EU 85 shall be monitored continuously. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 **DE Admin. Code** 1130 Section 6.1.3.1 dated 12/11/00]
- 4.7 The owner or operator shall conduct a daily odor survey at the perimeter of the facility on days the Resource Recovery Plant is operational according to the following procedure: (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 **DE Admin. Code** 1130 Section 6.1.3.1 dated 12/11/00]
  - 4.7.1 The daily surveys shall be conducted five days a week (Monday- Friday).
  - 4.7.2 The Company shall include off-day monitoring if there are any verified odor complaints on any off-day in any subsequent quarter.
  - 4.7.3 If an odor sufficient to cause or create a condition of air pollution is detected, the Company shall take action until an odor survey results in no detection of an odor from the Resource Recovery Plant.
  - 4.7.4 The survey shall be conducted on a weekly basis if no odors from the Resource Recovery Plant are detected in any consecutive seven days.

## 5. Record Keeping Requirements

- 5.1 The Company shall maintain, at a minimum, all of the information required by this permit for a minimum of five (5) years from such information's date of record. (This condition was modified from Permit: AQM-005/00004(R2)) [Reference 7 **DE Admin. Code** 1130 Section 6.1.3.2.2 dated 12/11/00]
- 5.2 Records of all test data shall be maintained. This data includes, but may not be limited to:
  - 5.2.1 The date, place and time of sampling measurements;
  - 5.2.2 The date(s) analyses were performed;
  - 5.2.3 The Company or entity that performed the analyses;



- 5.2.4 The analytical techniques or methods used;
- 5.2.5 The results of such analyses; and
- 5.2.6 The operating conditions existing at the time of sampling or measurement.  
*[Reference 7 DE Admin. Code 1130 Section 6.1.3.2 dated 12/11/00]*
- 5.3 The Company shall record the following in an initialed logbook daily: **(These conditions will be transferred to Permit: AQM-005/00004(R2))** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2 dated 12/11/00]*
  - 5.3.1 The fan amperage recorded twice each day for scrubbers EU 80, EU 81, EU 82, and EU 83.
  - 5.3.2 The type of fuel combusted in the thermal oxidizers EU 84 and EU 85.
  - 5.3.3 Tons of raw blood processed.
  - 5.3.4 Tons of feathers processed.
  - 5.3.5 Tons of offal and carcasses processed.
  - 5.3.6 Hours of resource recovery operation.
  - 5.3.7 Methods of compliance with Conditions 3.11 and 3.12.
- 5.4 The Company shall record the following for each month: **(These conditions will be transferred to Permit: AQM-005/00004(R2))** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2 dated 12/11/00]*
  - 5.4.1 The fuel usage for the twelve (12) month period immediately preceding the date of record in MMSCF for each thermal oxidizer EU 84 and EU 85.
  - 5.4.2 The total fuel usage for the twelve (12) month period immediately preceding the date of record in MMSCF for both thermal oxidizers EU 84 and EU 85.
  - 5.4.3 Production for the twelve (12) month period immediately preceding the date of record in TPY for each thermal oxidizer EU 84 and EU 85.
  - 5.4.4 The total production for the twelve (12) month period immediately preceding the date of record in TPY for both thermal oxidizers EU 84 and EU 85.
  - 5.4.5 Statement of compliance showing calculations for the emission factor for NO<sub>x</sub> in lb/ton raw material processed.
- 5.5 The Company shall maintain records of the following: **(These conditions will be transferred to Permit: AQM-005/00004(R2))** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2 dated 12/11/00]*
  - 5.5.1 All routine and non-routine maintenance.
  - 5.5.2 ORP of the scrubbing solution for EU 80, EU 81, EU 82, and EU 83.

- 5.5.3 The temperature in the combustion chamber of thermal oxidizers EU 84 and EU 85.
- 5.5.4 Calculations to show compliance with Conditions 2.1.8.2 and 2.1.8.3.
- 5.5.5 The odor survey log shall be initialed for each day the survey is conducted and includes the following:
  - 5.5.5.1 Presence or absence of odor.
  - 5.5.5.2 Wind direction.
  - 5.5.5.3 Location monitored.
  - 5.5.5.4 Actions taken in response to odors detected.
- 5.6 The rolling twelve (12) month total emissions shall be calculated and recorded each month in a log for each of the following pollutants. **(These conditions will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.1.3.2 dated 12/11/00]**
  - 5.6.1 Hydrogen Sulfide (H<sub>2</sub>S)
  - 5.6.2 Ammonia (NH<sub>3</sub>)
  - 5.6.3 Sulfur Oxide (SO<sub>x</sub>)
  - 5.6.4 Nitrogen Oxide (NO<sub>x</sub>)
  - 5.6.5 Carbon Monoxide (CO)
  - 5.6.6 Volatile Organic Compound (VOC)
  - 5.6.7 Particulate Matter (PM<sub>10</sub>)
  - 5.6.8 Particulate Matter (PM)

## **6. Reporting Requirements**

- 6.1 Emission in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department:
  - 6.1.1 Immediately upon discovery and after activating the appropriate site emergency plan to the Department's 24-hour complaint line (1-800-662-8802) any deviation that poses an imminent and substantial danger to public health, safety, or the environment. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.2 dated 12/11/00]**



- 6.1.2 Immediately upon discovery by calling the Environmental Emergency Notification and Compliant number, (800) 662-8802. (State Enforceable Only) **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3 dated 12/11/00]**
- 6.2 Discharges to the atmosphere in excess of any quantity specified 7 DE Admin. Code 1203 **"Reporting of a Discharge of a Pollutant or an Air Contaminant"** shall be reported, immediately upon discovery and after activating the appropriate site emergency plan, either in person or to the Department's 24-hour compliant line (1-800-662-8802). Discharges in compliance with this permit and excess emissions previously reported under Condition 6.1 of this permit are exempt from this reporting requirement. **(This condition was modified from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.5 dated 12/11/00 and 7 Del. C. Chapter 60, Section 6028]**
- 6.3 In addition to complying with Condition 6.1 and 6.2 of this permit, any reporting required by 7 DE Admin. Code 1203 **"Reporting of a Discharge of a Pollutant or an Air Contaminant"** and any other reporting requirements mandated by the State of Delaware, the owner or operator shall for each occurrence of excess emissions, within thirty (30) calendar days of becoming aware of such occurrence, supply the Department in writing with the following information:
- 6.3.1 The name and location of the facility;
- 6.3.2 The subject source(s) that caused the excess emissions;
- 6.3.3 The time and date of first observation of the excess emissions;
- 6.3.4 The cause and expected duration of the excess emissions;
- 6.3.5 For sources subject to numerical emission limitations, the estimated rate of emissions (expressed in the units of the applicable emission limitation) and the operating data and calculations used in determining the magnitude of the excess emissions; and
- 6.3.6 The proposed corrective actions and schedule to correct the conditions causing the excess emissions. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1112 Section 7.3 paragraphs 1, 2, 3, 4, and 5 dated 11/24/93]**
- 6.4 Each document submitted to the Department/EPA pursuant to this permit shall be certified by a Responsible Official as to truth, accuracy, and completeness. Such certification shall be signed by a Responsible Official and shall contain the language: "I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete." **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 5.6 dated 11/15/93 and 6.3.1 dated 12/11/00]**
- 6.5 Each document submitted to the Department/EPA pursuant to this permit shall be sent to the following addresses: **(This condition was taken from Permit: AQM-005/00004(R2))**

State of Delaware – DNREC Division of Air Quality Blue Hen Corporate Center 655 S. Bay Road, Suite 5 N Dover, DE 19901 ATTN: Division Director	United States Environmental Protection Agency Associate Director of Enforcement (3AP12) 1650 Arch Street Philadelphia, PA 19103
No. of Originals: <u>1</u> & No. of Copies: <u>1</u>	No. of Copies: <u>1</u>

## **7. Compliance Certification**

- 7.1 Compliance with the terms and conditions of this permit shall be certified to the Department not later than the first day of February of each year unless the terms and conditions require Compliance Certifications to be submitted more frequently. Such certifications shall cover the previous calendar year and shall be submitted on Form AQM-1001BB. The Compliance Certification shall include the following information: **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.1 dated 12/11/00]**
- 7.1.1 The identification of each term or condition of the permit that is the basis of the certification. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.1 dated 12/11/00]**
- 7.1.2 The Company's current compliance status, as shown by monitoring data and other information reasonably available to the Company. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.2 dated 12/11/00]**
- 7.1.3 Such certification shall indicate whether compliance was continuous or intermittent during the covered period. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.3 dated 12/11/00]**
- 7.1.4 The method(s) used for determining the compliance status of the Company, currently and over the reporting period as required by the monitoring, record keeping, and reporting required under Conditions 4, 5, and 6. **(This condition was modified from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.4 dated 12/11/00]**
- 7.1.5 Such other facts that the Department may require to determine the compliance status of the source. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.5 dated 12/11/00]**
- 7.2 Each compliance certification shall be submitted to the Department and EPA and shall be certified in accordance with Condition 6.4 of this permit. **(This condition was modified from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.4 dated 12/11/00]**
- 7.3 Any additional information possessed by the Company that demonstrates noncompliance with any applicable requirement must also be used as the basis for Compliance Certifications. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 62 FR 8314 dated 2/24/97]**



**Permits: APC-2011/0080-0081-OPERATION (Amendment 2)(FE)**  
**Permits: APC-2011/0082-0085-OPERATION (Amendment 3)(FE)**  
**Mountaire Farms of Delaware, Inc.**  
**Millsboro Complex**  
**Resource Recovery Plant**  
April 5, 2012  
Page 13

**8. Administrative Conditions**

- 8.1 This permit supersedes **Permits: APC-2011/0080-CONSTRUCTION (Amendment 2)(FE), APC-2011/0081-CONSTRUCTION (Amendment 2)(FE), APC-2011/0082-CONSTRUCTION (Amendment 3)(FE), APC-2011/0083-CONSTRUCTION (Amendment 3)(FE), APC-2011/0084-CONSTRUCTION (Amendment 3)(FE), and APC-2011/0085-CONSTRUCTION (Amendment 3)(FE)** dated February 21, 2012.
- 8.2 The Company shall have available at the facility at all times a copy of this permit and shall provide a copy of this permit to the Department upon request. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1102 Section 8.1 dated 6/1/97]
- 8.3 Failure to comply with the provisions of this permit may be grounds for suspension or revocation. [Reference 7 DE Admin. Code 1102 Section 6 dated 6/1/97]

Sincerely,



Paul E. Foster, P.E.  
Program Manager  
Engineering & Compliance Branch

PEF:JLF:MAS  
F:\EngAndCompliance\MAS\mas12045.doc

pc: Dover (Title V) File  
Melanie Smith





STATE OF DELAWARE  
DEPARTMENT OF NATURAL RESOURCES  
& ENVIRONMENTAL CONTROL  
DIVISION OF AIR QUALITY  
655 S. Bay Road, Suite 5N  
DOVER, DELAWARE 19901

Telephone: (302) 739 - 9402  
Fax No.: (302) 739 - 3106

April 5, 2012

Permit: **APC-2011/0103-OPERATION (NOx RACT)(NSPS)(FE)**  
Permit: **APC-2011/0104-OPERATION (NOx RACT)(NSPS)(FE)**  
Permit: **APC-2011/0105-OPERATION (NOx RACT)(NSPS)(FE)**

Mountaire Farms of Delaware, Inc.- Millsboro Complex  
Natural Gas Boilers 3, 4, and 5

Mountaire Farms of Delaware, Inc.  
P.O. Box 1320  
Millsboro, DE 19966

ATTENTION: Mr. John Wren  
Director of Engineering & Environmental Services

Dear Mr. Wren:

Pursuant to the 7 DE Admin. Code 1102 Section 2 and Section 11, approval by the Department of Natural Resources and Environmental Control is hereby granted for the operation of three Cleaver Brooks Model CBLE-800-150ST boilers, each 800 HP, fired on natural gas, located at the Millsboro Complex on 29106 John J. Williams Highway, Millsboro, Delaware, in accordance with the application submitted on Form Nos. AQM-1, AQM-2, AQM-3.2, AQM-5, AQM-1001, AQM-1001A, AQM-1001W, AQM-1001BB, and supporting calculations dated March 1, 2011 signed by Paul Downes, President.

This permit is issued subject to the following conditions all of which are federally enforceable except Condition 6.1.2 and 2.5:

**1. General Provisions**

- 1.1 Upon presentation of identification, the Company shall authorize officials of the Department to:
  - 1.1.1 Enter upon the Company's premises where a source is located or an emissions-related activity is conducted, or where records that must be kept under the terms and conditions of this permit are located. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.2.1 dated 12/11/00]
  - 1.1.2 Have access to and copy, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.2.2 dated 12/11/00]

*Delaware's good nature depends on you!*

- 1.1.3 Inspect, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Section 6.3.2.3 dated 12/11/00]
- 1.1.4 Sample or monitor, at reasonable times, any substance or parameter for the purposes of assuring compliance with this permit or any applicable requirement. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Section 6.3.2.4 dated 12/11/00]
- 1.2 This permit may not be transferred to another location or to another piece of equipment or process. [Reference 7 **DE Admin. Code** 1102 Section 7.1 dated 6/11/06]
- 1.3 This permit may not be transferred to another person, owner, or operator unless the transfer has been approved in advance by the Department. Approval (or disapproval) of the permit transfer will be provided by the Department in writing. A request for a permit transfer shall be received by the Department at least thirty (30) days before the date of the requested permit transfer. This request shall include:
  - 1.3.1 Signed letters from each person stating the permit transfer is agreeable to each person; and
  - 1.3.2 An Applicant Background Information Questionnaire pursuant to 7 Del C, Chapter 79 if the person receiving the permit has not been issued any permits by the Department in the previous five (5) years. [Reference 7 **DE Admin. Code** 1102 Section 7.1 dated 6/11/06 and 7 Del. C, Chapter 79]
- 1.4 The owner or operator shall not initiate construction, install, or alter any equipment or facility or air contaminant control device which will emit or prevent the emission of an air contaminant prior to submitting an application to the Department pursuant to 7 **DE Admin. Code** 1102, and, when applicable, 7 **DE Admin. Code** 1125, and receiving approval of such application from the Department; except as exempted in 7 **DE Admin. Code** 1102 Section 2.2. [Reference 7 **DE Admin. Code** 1102 Section 2.1 dated 6/11/06]

## **2. Emission Limitations**

- 2.1 Boilers 3, 4, and 5 (Emission Units 3, 4, and 5)
  - 2.1.1 Volatile Organic Compound (VOC) Emissions  
VOC emissions shall not exceed 0.13 pounds per hour and 0.57 tons per twelve (12) month rolling period for each boiler. **(This condition will be transferred to Permit: AQM-005/00004(R2)).** [Reference 7 **DE Admin. Code** 1130 Section 6.1.1 dated 12/11/00]
  - 2.1.2 Nitrogen Oxide (NO<sub>x</sub>) Emissions  
NO<sub>x</sub> emissions shall not exceed 1.14 pounds per hour and 4.99 tons per twelve (12) month rolling period for each boiler. **(This condition will be transferred to Permit: AQM-005/00004(R2)).** [Reference 7 **DE Admin. Code** 1130 Section 6.1.1 dated 12/11/00]



**2.1.3 Carbon Monoxide (CO) Emissions**

CO emissions shall not exceed 1.19 pounds per hour and 5.21 tons per twelve (12) month rolling period for each boiler. **(This condition will be transferred to Permit: AQM-005/00004(R2)).** [Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 12/11/00]

**2.1.4 Sulfur Oxide (SOx) Emissions**

SO<sub>2</sub> emissions shall not exceed 0.06 pounds per hour and 0.24 ton per twelve (12) month rolling period for each boiler. **(This condition will be transferred to Permit: AQM-005/00004(R2)).** [Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 12/11/00]

**2.1.5 Particulate Matter (PM10) Emissions**

PM10 emissions shall not exceed 0.33 pounds per hour and 1.43 tons per twelve (12) month rolling period for each boiler. **(This condition will be transferred to Permit: AQM-005/00004(R2)).** [Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 12/11/00]

**2.2** Particulate emissions from each emission unit shall not exceed 0.3 lb/MMBTU heat input on a maximum two (2) hour average. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1104, Section 2.1 dated 2/1/81]

**2.3** Nitrogen oxide emissions from Emission Units 3, 4, and 5 shall not exceed those achieved through an annual tune-up performed by qualified personnel. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1112 Section 3.3.2 dated 11/24/93]

**2.4** No person shall cause or allow the emission of visible air contaminants and/or smoke from a stationary or mobile source, the shade or appearance of which is greater than twenty percent (20%) opacity for an aggregate of more than three (3) minutes in any one (1) hour or more than fifteen (15) minutes in any twenty-four (24) hour period. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1114 Section 2.1 dated 7/17/84]

**2.5** Odors from this source shall not be detectable beyond the plant property line in sufficient quantities such as to cause a condition of air pollution. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1119 Section 2.1 dated 2/1/81]

**3. Operational Limitations**

**3.1** The Company shall combust only natural gas in these emission units. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Sections 6.1.1 and 6.2.1 dated 12/11/00]

**3.2** Total natural gas combusted in Emission Units 1, 2, 3, 4, and 5 shall not exceed 1,358.61 MMSCF in any rolling twelve-month period. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Sections 6.1.1 and 6.2.1 dated 12/11/00]

**3.3** No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the



atmosphere. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR Part 60 Subpart A Section 60.12]

- 3.4 The owner or operator of an affected facility shall record and maintain records of the amount of fuel combusted during each operating day. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR Part 60 Subpart Dc Section 60.48c(g)(1)]
- 3.5 As an alternative to meeting the requirements of Condition 3.4, the owner or operator of an affected facility may elect to record and maintain records of the amount of fuel combusted during each month. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR Part 60 Subpart Dc Section 60.48c(g)(2)]
- 3.6 As an alternative to meeting the requirements of Condition 3.4, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR Part 60 Subpart Dc Section 60.48c(g)(3)]
- 3.7 Operating hours for each boiler shall not exceed 8,736 hours in any rolling twelve-month period. The Company shall meet the control technology requirements of Minor New Source Review if the Company requests an increase in operating limits that result in a NO<sub>x</sub> potential to emit above five tons per year. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1125, Minor New Source Review]
- 3.8 The Company shall have qualified personnel perform tune-ups for Emission Units 3, 4, and 5. (This condition was modified from and will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1112 Section 3.3.2 dated 11/24/93]
- 3.9 At all times, including periods of startup, shutdown, and malfunction, the owner or operator shall, to the extent practicable, maintain and operate the facility, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determinations of whether acceptable operating procedures are being used will be based on information available to the Department, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1101 Section 3 dated 2/1/81, 7 DE Admin. Code 1102 Section 11.6 dated 6/11/06, and 40 CFR Part 60 Subpart A Section 60.11(d)]
- 3.10 All structural and mechanical components of the equipment covered by this permit shall be maintained in proper operating condition and such equipment shall be operated at all times in a manner consistent with good air pollution control practice. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1101 Section 3 dated 2/1/81 and 7 DE Admin. Code 1102 Section 11.6 dated 6/11/06]

#### **4. Testing and Monitoring Requirements**

- 4.1 Upon written request of the Department, the owner or operator shall, at the Company's expense, sample the emissions of, or fuel used by, an air contaminant emission source, maintain records and submit reports to the Department on the result of such sampling. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1117 Section 2.2 dated 7/17/84]



- 4.2 Upon written request by the Department, the Company shall install, maintain, and use emission monitoring devices, as approved in advance by the Department, to determine the nature and amount of emissions from this source. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1117 Section 2.1 dated 7/17/84]
- 4.3 Each month, the Company shall monitor the total MMSCF of natural gas combusted in Emission Units 1, 2, 3, 4, and 5. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Sections 6.1.1 and 6.2.1 dated 12/11/00]
- 4.4 Each month, the Company shall monitor the total MMSCF of natural gas for the twelve (12) month period immediately preceding the date of record for Emission Units 1, 2, 3, 4, and 5. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Sections 6.1.1 and 6.2.1 dated 12/11/00]
- 4.5 The Company shall monitor in a log the following: **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Sections 6.1.3.1.2 and 6.2.1 dated 12/11/00 and 7 DE Admin. Code 1112 Section 3.3.2 dated 11/24/93]
  - 4.5.1 Each annual tune-up.
  - 4.5.2 Personnel performing the annual tune-ups.
  - 4.5.3 Maintenance performed on the units.
- 4.6 That required by Condition 3(b)(1)(ii) of Permit: **AQM-005/00004(R2)**. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1117 Section 2.2 dated 7/17/84]

**5. Record Keeping Requirements**

- 5.1 The Company shall maintain, at a minimum, all of the information required by this permit for a minimum of five (5) years from such information's date of record. **(This condition was modified from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 12/11/00]
- 5.2 Records of all test data shall be maintained. This data includes, but may not be limited to:
  - 5.2.1 The date, place and time of sampling measurements;
  - 5.2.2 The date(s) analyses were performed;
  - 5.2.3 The Company or entity that performed the analyses;
  - 5.2.4 The analytical techniques or methods used;
  - 5.2.5 The results of such analyses; and
  - 5.2.6 The operating conditions existing at the time of sampling or measurement. [Reference 7 DE Admin. Code 1130 Section 6.1.3.2 dated 12/11/00]
- 5.3 Any owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; and any

malfunction of the air pollution control equipment. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR 60 Subpart A, Section 60.7(b)]

- 5.4 In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of Permit: AQM-005/00004(R2), the Company shall maintain records of the following: (This condition was modified from and will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Sections 6.1.3.1.2 and 6.2.1 dated 12/11/00]

5.4.1 Log of maintenance performed on the units.

5.4.2 Log of each annual tune-up.

5.4.3 Log of personnel performing the annual tune-ups.

5.4.4 Testing conducted in accordance with Condition 3(b)(1)(ii) of Permit: AQM-005/00004(R2).

5.4.5 The owner or operator shall maintain records of the amount of fuel combusted in the boilers in accordance with Condition 3.4, or Condition 3.5, or Condition 3.6. (This condition will be transferred to Permit: AQM-005/00004(R2))

5.4.6 Each month, the Company shall record the total MMSCF of natural gas for the twelve (12) month period immediately preceding the date of record for Emission Units 1, 2, 3, 4, and 5. (This condition will be transferred to Permit: AQM-005/00004(R2))

5.4.7 Each month, the Company shall record the hours of operation for each boiler for the twelve (12) month period immediately preceding the date of record for Emission Units 3, 4, and 5. (This condition will be transferred to Permit: AQM-005/00004(R2))

5.4.8 The rolling twelve (12) month total emissions shall be calculated and recorded each month in a log for each of the following pollutants. (This condition will be transferred to Permit: AQM-005/00004(R2))

5.4.8.1 Volatile Organic Compounds

5.4.8.2 Nitrogen Oxides

5.4.8.3 Carbon Monoxide

5.4.8.4 Sulfur Oxides

5.4.8.5 Particulate Matter (PM10)

## 6. Reporting Requirements

- 6.1 Emission in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department:



- 6.1.1 Immediately upon discovery and after activating the appropriate site emergency plan to the Department's 24-hour complaint line (1-800-662-8802) any deviation that poses an imminent and substantial danger to public health, safety, or the environment. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.2 dated 12/11/00]**
- 6.1.2 Immediately upon discovery by calling the Environmental Emergency Notification and Compliant number, (800) 662-8802. (State Enforceable Only) **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.3 dated 12/11/00]**
- 6.2 Discharges to the atmosphere in excess of any quantity specified 7 DE Admin. Code 1203 **"Reporting of a Discharge of a Pollutant or an Air Contaminant"** shall be reported, immediately upon discovery and after activating the appropriate site emergency plan, either in person or to the Department's 24-hour complaint line (1-800-662-8802). Discharges in compliance with this permit and excess emissions previously reported under Condition 6.1 of this permit are exempt from this reporting requirement. **(This condition was modified from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.5 dated 12/11/00 and 7 Del. C. Chapter 60, Section 6028]**
- 6.3 In addition to complying with Condition 6.1 and 6.2 of this permit, any reporting required by 7 DE Admin. Code 1203 **"Reporting of a Discharge of a Pollutant or an Air Contaminant"** and any other reporting requirements mandated by the State of Delaware, the owner or operator shall for each occurrence of excess emissions, within thirty (30) calendar days of becoming aware of such occurrence, supply the Department in writing with the following information:
- 6.3.1 The name and location of the facility;
- 6.3.2 The subject source(s) that caused the excess emissions;
- 6.3.3 The time and date of first observation of the excess emissions;
- 6.3.4 The cause and expected duration of the excess emissions;
- 6.3.5 For sources subject to numerical emission limitations, the estimated rate of emissions (expressed in the units of the applicable emission limitation) and the operating data and calculations used in determining the magnitude of the excess emissions; and
- 6.3.6 The proposed corrective actions and schedule to correct the conditions causing the excess emissions. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1112 Section 7.3 paragraphs 1, 2, 3, 4, and 5 dated 11/24/93]**
- 6.4 None in addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of Permit: **AQM-005/00004(R2)**. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR 60.48c]**
- 6.5 Each document submitted to the Department/EPA pursuant to this permit shall be certified by a Responsible Official as to truth, accuracy, and completeness. Such certification shall

be signed by a Responsible Official and shall contain the language: "I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete." (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 5.6 dated 11/15/93 and 6.3.1 dated 12/11/00]

- 6.6 One (1) original and one (1) copy of all required reports shall be sent to the address below: (This condition was modified from and will be transferred to Permit: AQM-005/00004(R2))

Division of Air Quality  
Blue Hen Corporate Center  
655 South Bay Road, Suite 5N  
Dover, DE 19901

## **7. Compliance Certification**

- 7.1 Compliance with the terms and conditions of this permit shall be certified to the Department not later than the first day of February of each year unless the terms and conditions require Compliance Certifications to be submitted more frequently. Such certifications shall cover the previous calendar year and shall be submitted on Form AQM-1001BB. The Compliance Certification shall include the following information: (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.1 dated 12/11/00]

- 7.1.1 The identification of each term or condition of the permit that is the basis of the certification. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.1 dated 12/11/00]

- 7.1.2 The Company's current compliance status, as shown by monitoring data and other information reasonably available to the Company. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.2 dated 12/11/00]

- 7.1.3 Such certification shall indicate whether compliance was continuous or intermittent during the covered period. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.3 dated 12/11/00]

- 7.1.4 The method(s) used for determining the compliance status of the Company, currently and over the reporting period as required by the monitoring, record keeping, and reporting required under Conditions 4, 5, and 6. (This condition was modified from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.4 dated 12/11/00]

- 7.1.5 Such other facts that the Department may require to determine the compliance status of the source. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.5 dated 12/11/00]

- 7.2 Each compliance certification shall be submitted to the Department and EPA and shall be certified in accordance with Condition 6.5 of this permit. (This condition was modified from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.4 dated 12/11/00]



- 7.3 Any additional information possessed by the Company that demonstrates noncompliance with any applicable requirement must also be used as the basis for Compliance Certifications. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 62 FR 8314 dated 2/24/97]
- 7.4 None in addition to that required by Condition 3(c)(3) of Permit: AQM-005/00004(R2). (This condition was modified from and will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.2 dated 12/11/00]

8. Administrative Conditions

- 8.1 This permit supersedes Permit: APC-2011/0103-CONSTRUCTION (NOx RACT)(NSPS)(FE), Permit: APC-2011/0104-CONSTRUCTION (NOx RACT)(NSPS)(FE), and Permit: APC-2011/0105-CONSTRUCTION (NOx RACT)(NSPS)(FE) dated May 25, 2011.
- 8.2 The Company shall have available at the facility at all times a copy of this permit and shall provide a copy of this permit to the Department upon request. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1102 Section 8.1 dated 6/11/06]
- 8.3 Failure to comply with the provisions of this permit may be grounds for suspension or revocation. [Reference 7 DE Admin. Code 1102 Section 6 dated 6/11/06]

Sincerely,



Paul E. Foster, P.E.  
Program Manager  
Engineering & Compliance Branch

PEF:JLF:MAS  
F:\EngAndCompliance\MAS\mas12042.doc

pc: Dover (Title V) File  
Melanie Smith  
Beth Sise, Environmental Manager, Mountaire Farms of Delaware, Inc., P.O. Box 1320, Millsboro, DE 19966

SECRET  
U.S. DEPARTMENT OF THE ARMY  
HEADQUARTERS, ARMY  
WASHINGTON, D. C. 20315  
100-100000-100000

TO: THE SECRETARY OF THE ARMY  
FROM: THE CHIEF OF STAFF  
SUBJECT: [Illegible]

1. [Illegible]

[Illegible]

2. [Illegible]

3. [Illegible]

4. [Illegible]

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[Illegible text]

5. [Illegible]





STATE OF DELAWARE  
DEPARTMENT OF NATURAL RESOURCES  
& ENVIRONMENTAL CONTROL  
DIVISION OF AIR QUALITY  
655 S. Bay Road, Suite 5N  
DOVER, DELAWARE 19901

Telephone: (302) 739 - 9402  
Fax No.: (302) 739 - 3106

April 5, 2012

**Permit: APC-2011/0158-OPERATION (NOx RACT)(NSPS)(FE)**

Mountaire Farms of Delaware, Inc.  
Natural Gas Boiler 6

Mountaire Farms of Delaware, Inc.  
P.O. Box 1320  
Millsboro, DE 19966

ATTENTION: Mr. John Wren  
Director of Engineering & Environmental Services

Dear Mr. Wren:

Pursuant to the 7 **DE Admin. Code** 1102 Section 2 and Section 11, approval by the Department of Natural Resources and Environmental Control is hereby granted for the operation of one Cleaver Brooks Model CBLE-800-150ST boiler, 800 HP, fired on natural gas, located at the Millsboro Complex on 29106 John J. Williams Highway, Millsboro, Delaware, in accordance with the application submitted on Form Nos. AQM-1, AQM-2, AQM-3.2, AQM-5, AQM-1001, AQM-1001A, AQM-1001W, AQM-1001BB, and supporting calculations dated May 26, 2011 signed by Paul Downes, President.

This permit is issued subject to the following conditions all of which are federally enforceable except Condition 6.1.2 and 2.5:

**1. General Provisions**

- 1.1 Upon presentation of identification, the Company shall authorize officials of the Department to:
  - 1.1.1 Enter upon the Company's premises where a source is located or an emissions-related activity is conducted, or where records that must be kept under the terms and conditions of this permit are located. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.2.1 dated 12/11/00]**
  - 1.1.2 Have access to and copy, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.2.2 dated 12/11/00]**

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Recycled Paper

- 1.1.3 Inspect, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Section 6.3.2.3 dated 12/11/00]
- 1.1.4 Sample or monitor, at reasonable times, any substance or parameter for the purposes of assuring compliance with this permit or any applicable requirement. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code** 1130 Section 6.3.2.4 dated 12/11/00]
- 1.2 This permit may not be transferred to another location or to another piece of equipment or process. [Reference 7 **DE Admin. Code** 1102 Section 7.1 dated 6/11/06]
- 1.3 This permit may not be transferred to another person, owner, or operator unless the transfer has been approved in advance by the Department. Approval (or disapproval) of the permit transfer will be provided by the Department in writing. A request for a permit transfer shall be received by the Department at least thirty (30) days before the date of the requested permit transfer. This request shall include:
  - 1.3.1 Signed letters from each person stating the permit transfer is agreeable to each person; and
  - 1.3.2 An Applicant Background Information Questionnaire pursuant to 7 Del C., Chapter 79 if the person receiving the permit has not been issued any permits by the Department in the previous five (5) years. [Reference 7 **DE Admin. Code** 1102 Section 7.1 dated 6/11/06 and 7 Del C., Chapter 79]
- 1.4 The owner or operator shall not initiate construction, install, or alter any equipment or facility or air contaminant control device which will emit or prevent the emission of an air contaminant prior to submitting an application to the Department pursuant to 7 **DE Admin. Code** 1102, and, when applicable, 7 **DE Admin. Code** 1125, and receiving approval of such application from the Department; except as exempted in 7 **DE Admin. Code** 1102 Section 2.2. [Reference 7 **DE Admin. Code** 1102 Section 2.1 dated 6/11/06]

## **2. Emission Limitations**

- 2.1 Boiler 6 (Emission Unit 8)
  - 2.1.1 Volatile Organic Compound (VOC) Emissions

VOC emissions shall not exceed 0.13 pounds per hour and 0.57 tons per twelve (12) month rolling period. **(This condition will be transferred to Permit: AQM-005/00004(R2)).** [Reference 7 **DE Admin. Code** 1130 Section 6.1.1 dated 12/11/00]
  - 2.1.2 Nitrogen Oxide (NOx) Emissions

NOx emissions shall not exceed 1.14 pounds per hour and 4.99 tons per twelve (12) month rolling period. **(This condition will be transferred to Permit: AQM-005/00004(R2)).** [Reference 7 **DE Admin. Code** 1130 Section 6.1.1 dated 12/11/00]



**2.1.3. Carbon Monoxide (CO) Emissions**

CO emissions shall not exceed 1.19 pounds per hour and 5.21 tons per twelve (12) month rolling period. **(This condition will be transferred to Permit: AQM-005/00004(R2)).** [Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 12/11/00]

**2.1.4. Sulfur Oxide (SOx) Emissions**

SO<sub>2</sub> emissions shall not exceed 0.06 pounds per hour and 0.24 ton per twelve (12) month rolling period. **(This condition will be transferred to Permit: AQM-005/00004(R2)).** [Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 12/11/00]

**2.1.5. Particulate Matter (PM10) Emissions**

PM10 emissions shall not exceed 0.33 pounds per hour and 1.43 tons per twelve (12) month rolling period. **(This condition will be transferred to Permit: AQM-005/00004(R2)).** [Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 12/11/00]

**2.2.** Particulate emissions shall not exceed 0.3 lb/MMBTU heat input on a maximum two (2) hour average. **(This condition was taken from Permit: AQM-005/ 00004(R2))** [Reference 7 DE Admin. Code 1104, Section 2.1 dated 2/1/81]

**2.3.** Nitrogen oxide emissions from Emission Unit 8 shall not exceed those achieved through an annual tune-up performed by qualified personnel. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1112 Section 3.3.2 dated 11/24/93]

**2.4.** No person shall cause or allow the emission of visible air contaminants and/or smoke from a stationary or mobile source, the shade or appearance of which is greater than twenty percent (20%) opacity for an aggregate of more than three (3) minutes in any one (1) hour or more than fifteen (15) minutes in any twenty-four (24) hour period. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1114 Section 2.1 dated 7/17/84]

**2.5.** Odors from this source shall not be detectable beyond the plant property line in sufficient quantities such as to cause a condition of air pollution. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1119 Section 2.1 dated 2/1/81]

**3. Operational Limitations**

**3.1.** The Company shall combust only natural gas in Emission Unit 8. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Sections 6.1.1 and 6.2.1 dated 12/11/00]

**3.2.** Total natural gas combusted in Emission Units 1, 2, 3, 4, 5, and 6 shall not exceed 1,630.34 MMSCF in any rolling twelve-month period. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 DE Admin. Code 1130 Sections 6.1.1 and 6.2.1 dated 12/11/00]

**3.3.** No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the



atmosphere. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR Part 60 Subpart A Section 60.12]

- 3.4 The owner or operator of an affected facility shall record and maintain records of the amount of fuel combusted during each operating day. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR Part 60 Subpart Dc Section 60.48c(g)(1)]
- 3.5 As an alternative to meeting the requirements of Condition 3.4, the owner or operator of an affected facility may elect to record and maintain records of the amount of fuel combusted during each month. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR Part 60 Subpart Dc Section 60.48c(g)(2)]
- 3.6 As an alternative to meeting the requirements of Condition 3.4, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR Part 60 Subpart Dc Section 60.48c(g)(3)]
- 3.7 Operating hours for each boiler shall not exceed 8,736 hours in any rolling twelve-month period. The Company shall meet the control technology requirements of Minor New Source Review if the Company requests an increase in operating limits that result in a NOx potential to emit above five tons per year. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1125, Minor New Source Review]
- 3.8 The Company shall have qualified personnel perform tune-ups for Emission Unit 8. (This condition was modified from and will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1112 Section 3.3.2 dated 11/24/93]
- 3.9 At all times, including periods of startup, shutdown, and malfunction, the owner or operator shall, to the extent practicable, maintain and operate the facility, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determinations of whether acceptable operating procedures are being used will be based on information available to the Department, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. (This condition will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1101 Section 3 dated 2/1/81, 7 DE Admin. Code 1102 Section 11.6 dated 6/11/06, and 40 CFR Part 60 Subpart A Section 60.11(d)]
- 3.10 All structural and mechanical components of the equipment covered by this permit shall be maintained in proper operating condition and such equipment shall be operated at all times in a manner consistent with good air pollution control practice. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1101 Section 3 dated 2/1/81 and 7 DE Admin. Code 1102 Section 11.6 dated 6/11/06]

#### **4. Testing and Monitoring Requirements**

- 4.1 Upon written request of the Department, the owner or operator shall, at the Company's expense, sample the emissions of, or fuel used by, an air contaminant emission source, maintain records and submit reports to the Department on the result of such sampling. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1117 Section 2.2 dated 7/17/84]



- 4.2 Upon written request by the Department, the Company shall install, maintain, and use emission monitoring devices, as approved in advance by the Department, to determine the nature and amount of emissions from this source. **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1117 Section 2.1** dated 7/17/84]
- 4.3 Each month, the Company shall monitor the total MMSCF of natural gas combusted in Emission Units 1, 2, 3, 4, 5, and 6. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1130 Sections 6.1.1 and 6.2.1** dated 12/11/00]
- 4.4 Each month, the Company shall monitor the total MMSCF of natural gas for the twelve (12) month period immediately preceding the date of record for Emission Units 1, 2, 3, 4, 5, and 6. **(This condition will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1130 Sections 6.1.1 and 6.2.1** dated 12/11/00]
- 4.5 The Company shall monitor in a log the following: **(This condition was taken from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1130 Sections 6.1.3.1.2 and 6.2.1** dated 12/11/00 and 7 **DE Admin. Code 1112 Section 3.3.2** dated 11/24/93]
  - 4.5.1 Each annual tune-up.
  - 4.5.2 Personnel performing the annual tune-ups.
  - 4.5.3 Maintenance performed on the units.
- 4.6 That required by Condition 3(b)(1)(ii) of **Permit: AQM-005/00004(R2)**. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1117 Section 2.2** dated 7/17/84]

**5. Record Keeping Requirements**

- 5.1 The Company shall maintain, at a minimum, all of the information required by this permit for a minimum of five (5) years from such information's date of record. **(This condition was modified from Permit: AQM-005/00004(R2))** [Reference 7 **DE Admin. Code 1130 Section 6.1.3.2.2** dated 12/11/00]
- 5.2 Records of all test data shall be maintained. This data includes, but may not be limited to:
  - 5.2.1 The date, place and time of sampling measurements;
  - 5.2.2 The date(s) analyses were performed;
  - 5.2.3 The Company or entity that performed the analyses;
  - 5.2.4 The analytical techniques or methods used;
  - 5.2.5 The results of such analyses; and
  - 5.2.6 The operating conditions existing at the time of sampling or measurement.  
[Reference 7 **DE Admin. Code 1130 Section 6.1.3.2** dated 12/11/00]
- 5.3 Any owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; and any

malfunction of the air pollution control equipment. (This condition will be transferred to Permit: **AQM-005/00004(R2)**) [Reference 40 CFR 60 Subpart A, Section 60.7(b)]

- 5.4 In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of Permit: **AQM-005/00004(R2)**, the Company shall maintain records of the following: (This condition was modified from and will be transferred to Permit: **AQM-005/00004(R2)**) [Reference 7 DE Admin. Code 1130 Sections 6.1.3.1.2 and 6.2.1 dated 12/11/00]

5.4.1 Log of maintenance performed on the units.

5.4.2 Log of each annual tune-up.

5.4.3 Log of personnel performing the annual tune-ups.

5.4.4 Testing conducted in accordance with Condition 3(b)(1)(ii) of Permit: **AQM-005/00004(R2)**.

5.4.5 The owner or operator shall maintain records of the amount of fuel combusted in the boilers in accordance with Condition 3.4, or Condition 3.5, or Condition 3.6. (This condition will be transferred to Permit: **AQM-005/00004(R2)**)

5.4.6 Each month, the Company shall record the total MMSCF of natural gas for the twelve (12) month period immediately preceding the date of record for Emission Units 1, 2, 3, 4, 5, and 6. (This condition will be transferred to Permit: **AQM-005/00004(R2)**)

5.4.7 Each month, the Company shall record the hours of operation for each boiler for the twelve (12) month period immediately preceding the date of record for Emission Units 1, 2, 3, 4, 5, and 6. (This condition will be transferred to Permit: **AQM-005/00004(R2)**)

5.4.8 The rolling twelve (12) month total emissions shall be calculated and recorded each month in a log for each of the following pollutants. (This condition will be transferred to Permit: **AQM-005/00004(R2)**)

5.4.8.1 Volatile Organic Compounds

5.4.8.2 Nitrogen Oxides

5.4.8.3 Carbon Monoxide

5.4.8.4 Sulfur Oxides

5.4.8.5 Particulate Matter (PM10)

## 6. **Reporting Requirements**

- 6.1 Emission in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department:



- 6.1.1 Immediately upon discovery and after activating the appropriate site emergency plan to the Department's 24-hour complaint line (1-800-662-8802) any deviation that poses an imminent and substantial danger to public health, safety, or the environment. **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.2 dated 12/11/00]**
- 6.1.2 Immediately upon discovery by calling the Environmental Emergency Notification and Compliant number, (800) 662-8802. (State Enforceable Only) **(This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.3 dated 12/11/00]**
- 6.2 Discharges to the atmosphere in excess of any quantity specified 7 **DE Admin. Code 1203 "Reporting of a Discharge of a Pollutant or an Air Contaminant"** shall be reported, immediately upon discovery and after activating the appropriate site emergency plan, either in person or to the Department's 24-hour complaint line (1-800-662-8802). Discharges in compliance with this permit and excess emissions previously reported under Condition 6.1 of this permit are exempt from this reporting requirement. **(This condition was modified from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.5 dated 12/11/00 and 7 Del. C. Chapter 60, Section 6028]**
- 6.3 In addition to complying with Condition 6.1 and 6.2 of this permit, any reporting required by 7 **DE Admin. Code 1203 "Reporting of a Discharge of a Pollutant or an Air Contaminant"** and any other reporting requirements mandated by the State of Delaware, the owner or operator shall for each occurrence of excess emissions, within thirty (30) calendar days of becoming aware of such occurrence, supply the Department in writing with the following information:
- 6.3.1 The name and location of the facility;
- 6.3.2 The subject source(s) that caused the excess emissions;
- 6.3.3 The time and date of first observation of the excess emissions;
- 6.3.4 The cause and expected duration of the excess emissions;
- 6.3.5 For sources subject to numerical emission limitations, the estimated rate of emissions (expressed in the units of the applicable emission limitation) and the operating data and calculations used in determining the magnitude of the excess emissions; and
- 6.3.6 The proposed corrective actions and schedule to correct the conditions causing the excess emissions. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1112 Section 7.3 paragraphs 1, 2, 3, 4, and 5 dated 11/24/93]**
- 6.4 None in addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of **Permit: AQM-005/00004(R2)**. **(This condition was modified from and will be transferred to Permit: AQM-005/00004(R2)) [Reference 40 CFR 60.48c]**
- 6.5 Each document submitted to the Department/EPA pursuant to this permit shall be certified by a Responsible Official as to truth, accuracy, and completeness. Such certification shall

be signed by a Responsible Official and shall contain the language: "I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete." (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 5.6 dated 11/15/93 and 6.3.1 dated 12/11/00]

- 6.6 One (1) original and one (1) copy of all required reports shall be sent to the address below: (This condition was modified from and will be transferred to Permit: AQM-005/00004(R2))

Division of Air Quality  
Blue Hen Corporate Center  
655 South Bay Road, Suite 5N  
Dover, DE 19901

## **7. Compliance Certification**

- 7.1 Compliance with the terms and conditions of this permit shall be certified to the Department not later than the first day of February of each year unless the terms and conditions require Compliance Certifications to be submitted more frequently. Such certifications shall cover the previous calendar year and shall be submitted on Form AQM-1001BB. The Compliance Certification shall include the following information: (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.1 dated 12/11/00]
- 7.1.1 The identification of each term or condition of the permit that is the basis of the certification. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.1 dated 12/11/00]
- 7.1.2 The Company's current compliance status, as shown by monitoring data and other information reasonably available to the Company. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.2 dated 12/11/00]
- 7.1.3 Such certification shall indicate whether compliance was continuous or intermittent during the covered period. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.3 dated 12/11/00]
- 7.1.4 The method(s) used for determining the compliance status of the Company, currently and over the reporting period as required by the monitoring, record keeping, and reporting required under Conditions 4, 5, and 6. (This condition was modified from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.4 dated 12/11/00]
- 7.1.5 Such other facts that the Department may require to determine the compliance status of the source. (This condition was taken from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.3.5 dated 12/11/00]
- 7.2 Each compliance certification shall be submitted to the Department and EPA and shall be certified in accordance with Condition 6.5 of this permit. (This condition was modified from Permit: AQM-005/00004(R2)) [Reference 7 DE Admin. Code 1130 Section 6.3.5.4 dated 12/11/00]



- 7.3 Any additional information possessed by the Company that demonstrates noncompliance with any applicable requirement must also be used as the basis for Compliance Certifications. (This condition was taken from Permit: **AQM-005/00004(R2)**) [Reference 62 FR 8314 dated 2/24/97]
- 7.4 None in addition to that required by Condition 3(c)(3) of Permit: **AQM-005/00004(R2)**. (This condition was modified from and will be transferred to Permit: **AQM-005/00004(R2)**) [Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.2 dated 12/11/00]

**8. Administrative Conditions**

- 8.1 This permit supersedes Permit: **APC-2011/0158-CONSTRUCTION (NOx RACT)(NSPS)(FE)** dated August 5, 2011.
- 8.2 The Company shall have available at the facility at all times a copy of this permit and shall provide a copy of this permit to the Department upon request. (This condition was taken from Permit: **AQM-005/00004(R2)**) [Reference 7 DE Admin. Code 1102 Section 8.1 dated 6/11/06]
- 8.3 Failure to comply with the provisions of this permit may be grounds for suspension or revocation. [Reference 7 DE Admin. Code 1102 Section 6 dated 6/11/06]

Sincerely,



Paul E. Foster, P.E.  
Program Manager  
Engineering & Compliance Branch

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pc: Dover (Title V) File  
Melanie Smith  
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